

## Claims

- [c1] I CLAIM:
1. An electroencephalogram acquisition unit (AU) for use by an AU operator, each AU comprising:
    - a parameter storage for storing a database of electroencephalogram parameter data; and
    - an access module coupled to the parameter storage for limiting access by the AU operator to the parameter storage.
  - [c2] 2. The acquisition unit (AU) of claim 1, further comprising:
    - an electroencephalogram generation module, coupled to the parameter storage for generating an electroencephalogram; and
    - a user interface coupled to the access module and the electroencephalogram generation module, the user interface for receiving input from the AU operator and for providing output.
  - [c3] 3. The electroencephalogram acquisition unit of claim 1, further comprising a communications module coupled to the parameter storage for remote access to the parameter storage.
  - [c4] 4. A system for electroencephalography of a patient with acute brain injury comprising:
    - an electroencephalogram acquisition unit (AU) for use by an AU operator;
    - a network of electroencephalogram readers; and
    - a communications network for facilitating communication between an AU and the electroencephalogram readers.
  - [c5] 5. The system of claim 4, where the electroencephalogram acquisition unit comprises:
    - a parameter storage for storing a database of electroencephalogram parameter data;
    - an access module coupled to the parameter storage for limiting access by the AU operator to the parameter storage; and
    - a communications module coupled to the parameter storage for remote access to the parameter storage.

[c6] 6. The system of claim 5, further comprising a template for the rapid placement of electroencephalogram electrodes on a patient with acute brain injury comprising a first strap having an outer surface and an inner surface; a second strap having an outer surface, an inner surface, a first end connected to the first strap, and a second end connected to the first strap; a third strap having an outer surface, an inner surface, a first end connected to the first strap at a first junction, a second end connected to the second strap at a second junction, and at least one opening completely through the strap from the outer surface to the inner surface; and where the opening in the third strap is positioned approximately 25% of the distance from the first junction toward the second junction.

*sub. matter  
of claim  
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[c7] 7. The system of claim 5, where the electroencephalogram acquisition unit further comprises:

- an electroencephalogram generation module, coupled to the parameter storage for generating an electroencephalogram; and
- a user interface coupled to the access module and the electroencephalogram generation module, the user interface for receiving input from the AU operator and for providing output.

[c8] 8. The system of claim 7, further comprising a template for the rapid placement of electroencephalogram electrodes on a patient with acute brain injury comprising a first strap having an outer surface and an inner surface; a second strap having an outer surface, an inner surface, a first end connected to the first strap, and a second end connected to the first strap; a third strap having an outer surface, an inner surface, a first end connected to the first strap at a first junction, a second end connected to the second strap at a second junction, and at least one opening completely through the strap from the outer surface to the inner surface; and where the opening in the third strap is positioned approximately 25% of the distance from the first junction toward the second junction.

[c9] 9. The system of claim 4, further comprising a template for the rapid placement of electroencephalogram electrodes on a patient with acute brain injury

comprising a first strap having an outer surface and an inner surface; a second strap having an outer surface, an inner surface, a first end connected to the first strap, and a second end connected to the first strap; a third strap having an outer surface, an inner surface, a first end connected to the first strap at a first junction, a second end connected to the second strap at a second junction, and at least one opening completely through the strap from the outer surface to the inner surface; and where the opening in the third strap is positioned approximately 25% of the distance from the first junction toward the second junction.

[c10] 10. A method for electroencephalography of a patient with acute brain injury comprising the steps of:

- creating a database of electroencephalogram parameter data;
- storing the database on an electroencephalogram acquisition unit (AU);
- limiting access to the database by operators of AU;
- permitting access to the database by a remote operator; and
- generating an electroencephalogram using the database.

[c11] 11. The method of claim 10, further comprising the steps of:

- selecting a network of electroencephalogram readers; and
- transmitting the electroencephalogram to one of the plurality of electroencephalogram readers.

[c12] 12. The method of claim 11, further comprising the step of providing a template for the rapid placement of electroencephalogram electrodes on a patient with acute brain injury comprising a first strap having an outer surface and an inner surface; a second strap having an outer surface, an inner surface, a first end connected to the first strap, and a second end connected to the first strap; a third strap having an outer surface, an inner surface, a first end connected to the first strap at a first junction, a second end connected to the second strap at a second junction, and at least one opening completely through the strap from the outer surface to the inner surface; and where the opening in the third strap is positioned approximately 25% of the distance from the first junction toward the second junction.

- [c13] 13. The method of claim 10, further comprising the step of providing a template for the rapid placement of electroencephalogram electrodes on a patient with acute brain injury comprising a first strap having an outer surface and an inner surface; a second strap having an outer surface, an inner surface, a first end connected to the first strap, and a second end connected to the first strap; a third strap having an outer surface, an inner surface, a first end connected to the first strap at a first junction, a second end connected to the second strap at a second junction, and at least one opening completely through the strap from the outer surface to the inner surface; and where the opening in the third strap is positioned approximately 25% of the distance from the first junction toward the second junction.